

Mohsen Nurisa

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About Me

Senior Full Stack Software Engineer with 8+ years of experience building scalable backend services and web applications using Node.js, TypeScript, JavaScript, PostgreSQL, and cloud-native technologies. Experienced in designing APIs, distributed systems, and microservices, with a strong focus on code quality, maintainability, and performance. Led the development of DeCaMap at NCG, Maynooth University, a real-time platform that secured €1 million in Science Foundation Ireland funding. Comfortable reviewing complex code, troubleshooting production systems, and communicating technical concepts clearly to both technical and non-technical audiences.

Technical Skills

Languages: TypeScript, JavaScript, PHP, Python, CSharp, HTML/CSS/SASS

Backend: Node.js, NestJS, Express.js, Laravel, FastAPI, Django

Frontend: React, Vue.js, Nuxt.js, TailwindCSS

Cloud: AWS (ECS, EKS, CodeDeploy, CloudFront, CloudWatch), Docker, Kubernetes

DevOps: Terraform (Infrastructure as Code), GitHub Actions, CI/CD, Observability (CloudWatch, Rollbar)

Databases: PostgreSQL, PostGIS, MySQL, MongoDB, Redis

Engineering: REST APIs, Microservices, Authentication (Keycloak), WebSockets, Git, Linux, Stripe, Agile (Scrum), LLM/AI integration, Database Optimisation, Figma, User Research, Wireframing, Prototyping, Design Systems

Core Competencies

Full Stack Development, Backend API Design, Cloud Infrastructure, Microservices, DevOps & CI/CD, Software Architecture, Distributed Systems, Performance Optimisation, Technical Leadership, Product Development

Experience

Livefarm

September 2024 – Feb 2026

Lead Web Developer

Dublin, Co. Dublin, Ireland

- Farm management SaaS platform connecting farmers, soil samplers, labs, and agri-advisory companies under a unified workflow covering soil sampling, lab testing, and report generation.
- Led a team of 4 developers across a full legacy-to-SaaS rebuild — owning architecture design, technical roadmap, code review, and mentoring junior engineers on best practices.
- Designed and built the new Laravel backend API from scratch; contributed to the React SPA and oversaw UI/UX direction across the redesigned product.
- Resolved critical MySQL scalability bottlenecks through table normalisation, composite indexing, query rewriting, and Redis caching — reducing slow-query incidents across the production pipeline.
- Delivered features in parallel on the live legacy app (Laravel + Vue.js + Inertia.js), maintaining continuous customer-facing progress while the new platform was in development.
- Owned the full CI/CD pipeline: Kanban-based Git flow, Chromatic for visual regression, pre-commit hooks, and GitHub Actions workflows deploying to AWS via blue-green CodeDeploy rollouts.
- Provisioned and managed cloud infrastructure using Kubernetes and Terraform; ensured uptime and performance through CloudFront CDN, AWS CloudWatch, and Rollbar error tracking.
- Managed web app and mobile app syncing using Amazon CloudAMQP (managed RabbitMQ)

NCG, Maynooth University

May 2022 – September 2024

- Earth observation and geospatial web platforms for research and emergency management.
- Served as Lead Developer on DeCaMap, a real-time wildfire management system: led requirements engineering, system architecture, and full-stack implementation (Nuxt.js front-end, Node.js/NestJS back-end, PostGIS database) — the platform secured €1M in funding from the Science Foundation Ireland DefOrg Innovation Challenge.
- Built real-time team coordination, live map tooling, WebSocket-based communication, and drone video streaming with 360° image display and distance measurement — handling live field use by fire brigades and drone operators.
- Contributed and oversaw API endpoint setup for ML services using Django and FastAPI.
- Partnered with the Product Owner to evolve the MVP into a scalable multi-tenant SaaS product, including stakeholder demos and multi-party field exercises.
- Delivered cross-functional features across multiple Earth Observation dashboards, collaborating with researchers to translate scientific requirements into robust UI/UX.
- Set up CI/CD pipelines using GitHub Actions and Azure services in a microservices architecture with Node.js and FastAPI services.

Ramzarz.trade

Dec 2021 – Apr 2022

*Full Stack Web Developer**Tehran, Iran*

- Developed new UI/UX features following design specifications, maintaining existing code, reviewing the codebase, and resolving any identified bugs.
- Contributed to the development and testing of new API endpoints to enhance functionality.

Freelancer

May 2019 – Dec 2021

*Full Stack Web Developer**Tehran, Iran*

- Designed and shipped multiple client products end-to-end — including a fully automated multi-currency exchange (Laravel, Vue.js, PHPUnit) and an online school management platform with five user roles and a complete academic workflow.
- Managed the full development lifecycle solo: requirements gathering, architecture, front-end, back-end, database design, automated testing, and deployment.

Rabsana

June 2017 – May 2019

*Web Developer**Shiraz, Iran*

- Progressed from back-end developer to full-stack team lead; led the development team, conducted code reviews, and represented engineering in business stakeholder meetings.
- Built Laravel packages integrating third-party Digital Asset and Blockchain services.

Key Projects

Livefarm Web App | *Laravel, Nextjs, MySQL, Keycloak, AWS Services, AWS Amplify, Figma, Laravel Envoyer, and Forge*

- SaaS agriculture platform with a map-based interface, satellite imagery, farm plot/zone management, soil testing lab integration, fertilizer/nitrogen planning, Stripe subscriptions, and a fine-grained role/permission system.

DeCaMap AI at NCG, Maynooth University | *ExpressJS, NestJS, PostgreSQL, VueJS, Nuxtjs, WordPress, OpenLayers, and Pannellum*

- Real-time wildfire and natural disaster coordination platform for firefighters and first responders. Won the €1M Science Foundation Ireland DefOrg Innovation Challenge.
- Features: live map tools, team and event management, real-time WebSocket communication, drone video streaming with scrubbing/tagging/filtering, 360° image display via Pannellum, and in-video distance measurement.
- Built as a microservices architecture with CI/CD on GitHub Actions and Azure; integrated AI tooling (ChatGPT, GitHub Copilot) in the R&D workflow.

Cryptocurrency Exchange as a freelancer | *Laravel, MySQL, PHPUnit, WordPress, and VueJS*

- Fully automated exchange handling crypto, Webmoney, PerfectMoney, and bank payments — with admin panel, role/permission system, step-wise discounts, and bilingual (Farsi/English) multi-skin landing pages.

Online Schooling as a freelancer | *Laravel, MySQL, and VueJS*

- The all-encompassing panel serving as a powerhouse for efficient management across all facets of an educational institution.
- Its adaptable design accommodates five distinct user roles, covering teacher, student, and parent registration, course scheduling, attendance tracking, and progress monitoring.
- Demo: schooling.mohsen-nurisa.eu

Education

Shiraz University

2016 – 2019

Master of Software Engineering

Shiraz, Iran

- **Relevant Coursework:** Advanced Algorithms (CSharp, C++), Advanced Mathematics, Cloud Computing and Parallel Computing (CSharp, C++).
- **Thesis:** Predicting ADHD from early childhood data using data mining techniques (Python)

Mohaghegh Ardabili University

2010 – 2015

Bachelor of Software Engineering

Shiraz, Iran

- **Relevant Coursework:** Algorithms (CSharp, C++), Data Structures (C++), Software Engineering (C Sharp, Java), Logic Circuits, Image Processing (Matlab)
- **Thesis:** Detecting structural resistance to earthquakes through image processing techniques

Activities / Interests

Black belt in Kyokushin Karate. Salsa and Bachata dancer. Hiker. Always interested in conversations at the intersection of geospatial tech, AgriTech, AI, and distributed systems.